

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI - 590018
2020–2021**



A

Mini Project Report

On

“Design and Development of Regulated Power Supply”

Submitted in the partial fulfilment of the requirement for the VI

Semester Mini Project - 18EEMP68 for the award of degree of

Bachelor of Engineering

in

Electrical and Electronics Engineering

by

ANEESH KUMAR.S 1GV18EE002

SENDHIL PRABAKAR.V 1GV18EE010

SUMUKHA.GS 1GV18EE013

BALIGOLLA SIVA KUMAR 1GV19EE400

Carried at

Dr. T. THIMMAIAH INSTITUTE OF TECHNOLOGY.

Under the Guidance of

Mr.DAYANANDA.B R. M.Tech

Asst Professor, Dept. of EEE

Dr.TTIT, KGF

Head of Department

Dr.LAKSHMIPATHY.N.Ph.D

Professor, Dept. of EEE

Dr.TTIT, KGF

**Department of Electrical and Electronics
Engineering**



2020-2021

**Dr.T.THIMMAIAH INSTITUTE OF TECHNOLOGY
(Formerly Golden Valley Institute of Technology)
Department of Electronics and Communication Engineering,
Kolar Gold Fields – 563119.**



Dr.T.Thimmaiah Institute of Technology
Oorgaum Post, K.G.F-563120
(Approved by AICTE, New Delhi, Affiliated to VTU-Belagavi,
Approved by Govt. of Karnataka and ISO 21001-2018 Certified)



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the Mini Project Work entitled

“Design and Development of Regulated Power Supply”

Is a bonafied work carried out by

ANEESH KUMAR.S	1GV18EE002
SENDHIL PRABAKAR.V	1GV18EE010
SUMUKHA.GS	1GV18EE013
BALIGOLLA SIVA KUMAR	1GV19EE400

in the partial fulfillment for the award of degree of Bachelor of Engineering in **Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi** during the year **2020-2021**. It is certified that all corrections/suggestions indicated for the assessment have been incorporated in the report deposited in the departmental library. The Mini Project report has been approved as it satisfies the academic requirement in respect of Project Work- 18EEMP68 prescribed for the Bachelor of Engineering Degree.

Signature of Guide

Prof. Dayananda B.R

Signature of HOD

Dr. N. Lakshmipathy

Signature of Principal

Dr. Syed Ariff

Name of Examiners

1. 27/8/21
2. S. SUBHASHINI - S

Signature with Date

1. 27/8/21
2. 27/8/21

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI - 590018**

2020 –2021



A

Mini Project Report

on

“DESIGN OF STEP-DOWN AC TRANSFORMER FROM 230V TO 60V AC”

Submitted in the partial fulfilment of the requirement

For the VI Semester Mini- Project - 18EEMP68 for the award of degree of

**Bachelor of Engineering
in**

**Electrical and Electronics Engineering
by**

Bhavana G T	1GV18EE003
Madhukar S	1GV18EE006
Sujana N	1GV18EE012
Vinay Kumar R	1GV17EE020

Carried at

Dr.T. THIMMAIAH INSTITUTE OF TECHNOLOGY

**Under the Guidance of
Mr. Somashekar B**

**Assoct. Prof,
Dept. of EEE, Dr. TTIT. K.G.F.**



**Dr.T. THIMMAIAH INSTITUTE OF TECHNOLOGY
(Formerly Golden Valley Institute of Technology)
Department of Electrical and Electronics Engineering,
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Dr.T. THIMMAIAH INSTITUTE OF TECHNOLOGY



(Formerly Golden Valley Institute of Technology)

Oorgaum Post, K.G.F-563120

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the Mini-Project Work entitled **"DESIGN OF STEP-DOWN AC TRANSFORMER FROM 230V TO 60V AC"** is a bonafied work carried out by BHAVANA G T-1GV18EE003, MADHUKAR S-1GV18EE006, SUJANA N-1GV18EE012, VINAY KUMAR R-1GV17EE020 in the partial fulfilment for the award of degree of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological University, Belagavi during the year 2020- 2021. It is certified that all corrections/suggestions indicated for the assessment have been incorporated in the report deposited in the departmental library. The Project report has been approved as it satisfies the academic requirement in respect of Project Work- 18EEMP68 prescribed for the Bachelor of Engineering Degree.

.....
Signature of Guide

Mr. Somashekar B

.....
Signature of HOD

Dr. N. Lakshminpathy
Head of the Department
Dept. of Electrical Engineering
Dr. T. Thimmaiah Institute of Technology
Oorgaum, K.G.F.-563 120.

.....
Signature of Principal

Dr. Syed Ariff
PRINCIPAL
Dr. T. Thimmaiah Institute of Technology
Oorgaum, K.G.F. - 563 120.

Name of Examiners

1. Subhashini S

Signature with Date

1. 18/05/2021
2. 18/05/2021

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI - 590018
2020 –2021**



A

Mini Project Report

On

“DESIGN OF FIRING CIRCUIT FOR CONVERTER”

**Submitted in the partial fulfilment of the requirement
for the VI Semester Mini Project - 18EEMP68 for the award of degree of**

Bachelor of Engineering

in

Electrical and Electronics Engineering

by

ABHILASH G	1GV18EE001
KATHYAYANI K R	1GV18EE004
SHAKUNTHALA K	1GV18EE011
MOHANA M	1GV17EE021

Carried at

Dr.T. THIMMAIAH INSTITUTE OF TECHNOLOGY

Under the Guidance of

Mrs. SRIDEVI, ASST PROFESSOR

Dept. of EEE, Dr. TTIT, K.G.F.



Dr.T. THIMMAIAH INSTITUTE OF TECHNOLOGY

(Formerly Golden Valley Institute of Technology)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

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Dr.T. THIMMAIAH INSTITUTE OF TECHNOLOGY
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
 Kolar Gold Fields - 563120



CERTIFICATE

Certified that the mini-project work entitled "**DESIGN OF A FIRING CIRCUIT FOR CONVERTER**" is a bonafied work carried out by ABHILASH G 1GV18EE001, KATHYAYANI K R-1GV18EE004, SHAKLUNTHALA K-1GV18EE011, MOHANA M-1GV17EE021 in the partial fulfilment for the of degree of Bachelor of Engineering in Electrical and Electronics Engineering of the Visvesvaraya Technological award University, Belagavi during the year of 2020-2021. It is certified that all corrections/suggestions indicated for the assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirement in respect of project work- 18EEMP68 prescribed for the bachelor of Engineering Degree.

A. Sridevi
 Signature of Guide

Mrs. Sridevi A

Dr. N. Lakshmi
 Signature of HOD

Dr. N. Lakshmi

Head of the Department

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Dr. Syed Ariff
 Signature of Principal

Dr. Syed Ariff

Name of Examiners

1. B. Suresh Kumar
2. Sathishini S

Signature with Date

1. *B. Suresh Kumar* 18/08/2021
2. *Sathishini S* 18/08/2021

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI - 590018

2020 -2021



A

Mini Project Report

on

“DESIGN AND DEVELOPMENT OF SINGLE PHASE INDUCTION
MOTOR”

Submitted in the partial fulfilment of the requirement

For the VI Semester Mini- Project - 18EEMP68 for the award of degree of

Bachelor of Engineering
in

Electrical and Electronics Engineering
by

Bhargavi R	1GV18EE014
Lisha S	1GV18EE005
Revanth R	1GV18EE009

Carried at

Dr.T. THIMMAIAH INSTITUTE OF TECHNOLOGY

Under the Guidance of
Dr.N.Lakshmipathy

HOD

Dept. of EEE, Dr. TTIT. K.G.F.



Dr.T. THIMMAIAH INSTITUTE OF TECHNOLOGY
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(Formerly Golden Valley Institute of Technology)

Oorgaum Post, K.G.F-563120

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

Certified that the Mini-Project Work entitled **"DESIGN AND DEVELOPMENT OF SINGLE PHASE INDUCTION MOTOR"** is a bonafied work carried out by **BHARGAVI R-1GV18EE014, LISHA S-1GV18EE005 and REVANTH R-1GV18EE009**, in the partial fulfilment for the award of degree of Bachelor of Engineering in **Electrical and Electronics Engineering** of the **Visvesvaraya Technological University, Belagavi** during the year 2020-2021. It is certified that all corrections/suggestions indicated for the assessment have been incorporated in the report deposited in the departmental library. The Project report has been approved as it satisfies the academic requirement in respect of **Project Work-18EEMP68** prescribed for the Bachelor of Engineering Degree.

..... 24/8/21

Signature of Guide and HOD

Dr.N.Lakshmipathy

Head of the Department
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Dr. T. Thimmaiah Institute of Technology,
Oorgaum, K.G.F-563 120.

Name of Examiner

1. B. Somashekar -
2. Jillian Rufus-J

.....

Signature of Principal

Dr. Syed Ariff

Signature with Date

1. B. Somashekar -
2. [Signature]